

KORABLEV, L. N.

120-5-13/35

AUTHORS: Blokh, Ya.L., and Korablev, L.N.

TITLE: Automatic Recording of Cosmic Ray Outburst (Avtomaticheskaya registratsiya vspyshek kosmicheskogo izlucheniya)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.5, pp. 58 - 59 (USSR).

ABSTRACT: Studies of major solar outbursts in the intensity of cosmic radiation (Ref.1) are of major interest in the solution of the problem of the mechanism of production of cosmic rays on the sun. To solve the theoretical problem it is necessary not only to detect the presence of an increase in the intensity but also to know the moment at which the intensity begins to increase (to within a minute), the rate of growth up to the maximum, and the rate of fall to the normal level thereafter. In accordance with the recommendation of the International Committee for the IGY (15.9.56) it is necessary to record increases in the intensity of cosmic rays of the order of 10% and their beginning to ± 0.5 min. A method for an automatic recording of the beginning of an increase in the intensity of the hard component of cosmic radiation is now described. Increases greater than or equal to 5% can be measured with an accuracy of less than 0.5 min. The device includes a fast recorder of the number of coincidences seen by a cubic telescope

Card:

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... up the number of outbursts
... number of pulses increases
... in half-a-minute gives the statistical

Automatic Recording of Cosmic Ray Outburst.

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accuracy of $\pm 2.2\%$. In order to increase the stability of the working threshold, the recorded radiation is compared with the frequency of the standard oscillator which is stable to 0.1 - 0.01%. The comparison is carried out by means of a discrete count of the radiation pulses and the pulses from the oscillator using the counter circuit shown in Fig.1. There are 1 figure and 3 Slavic references.

ASSOCIATION: Scientific Research Institute for Geomagnetism of the Ionosphere and Radio-wave Propagation (Nauchno-issledovatel'skiy Institut zemnogo magnetizma ionosfery i rasprostraneniya radiovoln)

SUBMITTED: January 14, 1957.

AVAILABLE: Library of Congress

Card 3/3

"Electronic Voltage Stabilizer."

Author's Certificates
Elektrosvyaz', 1958, Nr 9, p 78

SOV/120-59-2-25/50

AUTHORS: Belovitskiy, G.Ye., Korabley, L.N., Sukhov, L.V. and Shtranikh, I.V.

TITLE: An Apparatus for the Automatic Measurement of Multiple Scattering of Particles (Ustanovka dlya avtomatizatsii izmereniy mnogokratnogo rasseyaniya chastits)

PERIODICAL: Priory i tekhnika eksperimenta, 1959, Nr 2, pp 86-90 (USSR)

ABSTRACT: The instrument may be used to carry out both measuring and computing operations on multiple Coulomb scattering. It can also be used to measure lengths. The table of the microscope can be moved repeatedly through fixed intervals (50, 100, 250 and 500 μ). The second coordinate which gives the deviation of the track from the x-axis is transformed into electrical pulses by means of a photoelectric device in the micrometer eyepiece. These pulses are transmitted to the computing part of the apparatus and the number of pulses given by the photoelectric device in each measurement of the y-coordinate is proportional to the magnitude of the first difference in the coordinates. The instrument is not fully automatic since an observer must place the track manually in a standard position. The apparatus was checked

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SOV/120-59-2-25/50
An Apparatus for the Automatic Measurement of Multiple Scattering
of Particles

against an observer and the average percentage difference between the semi-automatic machine and an observer working with an ordinary microscope is 1-5%. The use of this machine cuts down the scanning time by a factor of 5 and increases the accuracy because it eliminates any possible arithmetical errors committed by the observer. The instrument can also be used with bubble chambers and Wilson cloud chambers. A.V. Shileiko and M.I. Tret'yakova are thanked for their help.

Card 2/2 There are 4 figures, 1 table and 7 references, 1 of which is Swedish, 1 Italian and 5 are Soviet.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute of the Academy of Sciences of the USSR)

SUBMITTED: March 31, 1957

KURABLEV, L. N.

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PHASE I BOOK EXPLOITATION

SOV/5486

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniyy v narodnoye khozyaystvo SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy soveshchaniya v 4 tomakh. t. 1: Obshchiye voprosy primeneniya izotopov, pribory s istochnikami radioaktivnykh izlucheniyy, radiatsionnaya khimiya, khimicheskaya i neftepererabatyvayushchaya promyshlennost' (Radioactive Isotopes and Nuclear Radiations in the National Economy of the USSR; Transactions of the Symposium in 4 Volumes. v. 1: General Problems in the Utilization of Isotopes; Instruments With Sources of Radioactive Radiation; Radiation Chemistry; the Chemical and Petroleum-Refining Industry) Moscow, Gostoptekhnizdat, 1961. 340 p. 4,140 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR, and Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii.

Ed. (Title page): N.A. Petrov, L.I. Petrenko and P.S. Savitskiy; Eds. of this Vol.: L.I. Petrenko, P.S. Savitskiy, V.I. Sinitzin, Ya. M. Kolotyrkin, N.P. Syrkin and R.F. Roma; Executive Eds.: Ye. S. Levina and B. F. Titkaya; Tech. Ed.: E.A. Mikhina.

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Radioactive Isotopes (Cont.)

80V/5486

PURPOSE: The book is intended for technical personnel concerned with problems of application of radioactive isotopes and nuclear radiation in all branches of the Soviet economy.

COVERAGE: An All-Union Conference on problems in the introduction of radioactive isotopes and nuclear radiation into the national economy of the Soviet Union took place in Riga on 12-16 April 1960. The Conference was sponsored by: the Gosudarstvennyy nauchno-tekhnicheskii komitet Soveta Ministrov SSSR (State Scientific and Technical Committee of the Council of Ministers, USSR); Glavnoye upravleniye po ispol'zovaniyu atomnoy energii pri Sovete Ministrov SSSR (Main Administration for the Utilization of Atomic Energy of the Council of Ministers, USSR); Academy of Sciences, USSR; Gosplan USSR; Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers, USSR, for Automation and Machine Building) and the Council of Ministers of the Latvian SSR. The transactions of this Conference are published in four volumes. Volume I contains articles on the following subjects: the general problems of the Conference topics; the state and prospects of development of radiation chemistry; and results and prospects of applying radioactive isotopes and nuclear radiation in the petroleum refining and chemical industries. Problems of designing and manufacturing instruments which contain sources of radioactive radiation and are used for checking and automation of technological processes are examined, along with problems of accident prevention in their use. No personalities are mentioned. References accompany some of the articles.

Card 2/12

Radioactive Isotopes

SOV/5486

Korablev, L.N. Specifications of Tubes and Cold Cathodes 158

RADIATION CHEMISTRY

Breger, A. Kh. Sources of γ -Radiation for Radiation-Chemical Apparatus 169

Syrkus, N.P., A.Kh. Breger, and B.I. Vaynshteyn. Basic Technological Characteristics of a Potential Apparatus for Carrying Out Radiation Polymerization of Ethylene on an Industrial Scale 176

Dogadkin, B.A., Z.N. Tarasova, M. Ya. Kaplunov, A. Kh. Breger, L.M. Kepersha, B.I. Vaynshteyn, Ya. M. Vizel', and V.L. Karpov. Intensification of the Process of Radiation Vulcanization and the Technical Principles of an Experimental Installation for the Radiation Vulcanization of Tires 184

Dzhagatspanyan, R.V., V.I. Zetkin, G.V. Motsarev, and M.T. Filippov. Chlorination of Silicon-Containing Monomers and Polymers Under the Action of γ -Radiation 197

Card 7/12

KORABLEV, Lev Nikolayevich; NIKOL'SKIY, S.I., otv. red.; BUTOMO, N.N.,
red. izd-va; GESSEN, L.V., red. izd-va; GUS'KOVA, O.M., tekhn.
red.

[Cold-cathode electron tubes] Lampy s kholodnym katodom. Moskva,
Izd-vo Akad. nauk SSSR, 1961. 175 p. (MIRA 14:11)
(Electron tubes)

PHASE I BOOK EXPLOITATION SOV/5908

Korablev, Lev Nikolayevich

Lampy s kholodnym katodom (Cold-Cathode Tubes) Moscow, Izd-vo AN SSSR, 1961. 175 p. 10,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Fizicheskii institut imeni P. N. Lebedeva.

Resp. Ed.: S. I. Nikol'skiy; Eds. of Publishing House: N. N. Butomo and L. V. Gessen; Tech. Ed.: O. M. Gus'kova.

PURPOSE: This book is intended for technical and scientific personnel interested in the theoretical and practical problems presented by cold-cathode tubes.

COVERAGE: The book describes in detail the structure, properties, and operating conditions of cold-cathode tubes used in equipment for electronics, experimental physics, automation, computer engineering instrumentation, and communications. The

Card 1/1

Cold-Cathode Tubes

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technical and economic significance of developments in this field are also discussed. The author thanks D. V. Skobel'tsyn, Academician, and A. A. Sanin and S. I. Nikol'skiy for their assistance. There are 198 references: 198 Soviet, 5 English, and 1 German.

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Card 2/4

VORONKOV, Anatoliy Yefimovich, inzh.; KORABLEV, Lev Nikolayevich,
inzh.; MURIN, Igor' Dmitriyevich, inzh.; SHTRANYKH,
Igor' Vladimirovich, kand. tekhn. nauk; SHTEYNBOK, G.Yu.,
inzh., ved. red.; SOKOLOV, I.D., inzh., red.; SOROKINA,
T.M., tekhn. red.

[High-speed multichannel pulse height analyzer]. Bystrodei-
stvuiushchii mnogokanal'nyi amplitudnyi analizator. Moskva,
Filial Vses. in-ta nauchn. i tekhn. informatsii, 1957. 63 p.
(Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt.
Tema 41. No. P-57-16/1) (MIRA 16:3)

(Pulse techniques (Electronics))

(Electronic measurements)

L 50748-65 EWT(1)/EWA(h) Feb
ACCESSION NR: AP5015345

UR/0286/65/000/009/0094/0094
681.142.642

13
B

AUTHOR: Korablev, L. N.

TITLE: A pulse counter which uses cold cathode tubes. Class 42, No. 170761

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 94

TOPIC TAGS: pulse counter, cold cathode tube, coincidence counter

ABSTRACT: This Author's Certificate introduces: 1. A pulse counter based on cold cathode tubes which are series controlled by coincidence circuits. The device is designed for reducing the number of tubes required for a scaling factor of 6. The counter input is connected directly to the first stage. The input is connected to the second stage through a coincidence circuit which controls the first stage, and to the third and fourth stages through coincidence circuits which control the second stage. The outputs of the third and fourth stages are connected to the neutral inputs of the first and second stages, either through a load resistance or through a diode. 2. A modification of this pulse counter which is designed for a scaling factor of 10. This unit contains an additional stage which is connected

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ACCESSION NR: AP5015345

after the second stage and controls the second stage through a coincidence circuit.

ASSOCIATION: none

SUBMITTED: 11May63

ENCL: 01

SUB CODE: DP, EC

NO REF SOV: 000

OTHER: 000

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ACCESSION NR: AP5015345

ENCLOSURE: 01

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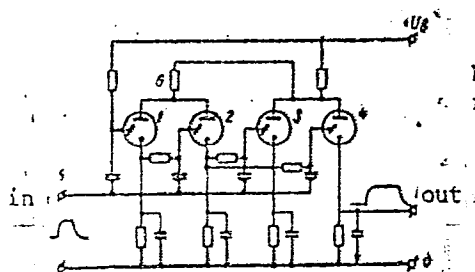


Fig. 1. 1-4--tubes; 5--counter input; 6--load resistance

C1

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Card 3/3

ACC NR: AP5025687

SOURCE CODE: UR/0286/65/000/018/0037/0037

AUTHOR: Korablev, L. N.

ORG: none

TITLE: Ring counter of cold cathode tubes. Class 21, No. 174665

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 37

TOPIC TAGS: counter circuit, cathode tube

ABSTRACT: This Author Certificate presents a ring counter of cold cathode tubes with a digital indicator lamp whose cathodes are connected to the anodes of the counter tubes. To simplify the digital lamp quenching circuits, to shape the input signals, and to insure count reversibility, the counter tube anodes are connected through their quenching capacitors to the indicator lamp anode and to coincidence circuits. The second inputs of the coincidence circuits are connected to the direct and reverse count buses. The outputs are connected to the tube grids of the preceding and succeeding stages.

SUB CODE: EC/

SUBM DATE: 05Sep62

Card 1/1 *pw*

UDC: 621.374.32 681.142 642

ACC NR: AP0033521

SOURCE CODE: 09/0413/00/000/010/0100/0100

INVENTOR: Korablev, L. N.

ORG: None

TITLE: A device for converting the voltage of a continuous signal. Class 21, No. 150924

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 180

TOPIC TAGS: electronic signal, signal shape, signal conversion, cold cathode, diode electron tube

ABSTRACT: This Author's Certificate introduces: 1. A device for converting the voltage of a continuous signal into stepped voltage. The unit consists of a reservoir capacitor and a diode connected in series. An identical change in voltage amplitude from one step to the next is provided by using the voltage difference between the ignition and quenching voltages in a cold-cathode diode. 2. A modification of this converter in which a resistor is connected in series with the reservoir capacitor. This resistor is shunted by a condenser with a capacitance which is low in comparison with that of the reservoir capacitor. 3. A modification of this converter designed for voltages of either polarity. Two cold-cathode diodes are connected in series and the signal to be converted is fed through a common reservoir capacitor between these diodes. Voltages of one polarity are taken from the anode of one diode and those of the opposite polarity are taken from the cathode of the second diode.

SUB CODE: 09/ SUBM DATE: 22Jul61

Card 1/1

UDC: 621.314.2

KALININ, V.F., kand. tekhn. nauk, red.; ~~KORABLEV, L.V.~~, red.; PISKAREV, Ye.V., red.; ANDREYENKO, Z.D., red.; MAZEL', Ye.I., tekhn. red.

[Transactions. Selected reports by foreign scientists] Trudy. [Izbrannye doklady inostrannykh ucherykh] Moskva, Izd-vo Glav.uprav. po ispol'zovaniyu atomnoi energ. pri Sovete Ministrov SSSR. Vol.1. [Physics of a hot plasma and thermonuclear reactions] Fizika goriachei plazmy i termoiadernye reaktsii. Pod obshchei red. V.F.Kalinina. 1959. 715 p.

(MIRA 14:7)

1. Vtoraya mezhdunarodnaya konferentsiya po mirnomu ispol'sovaniyu atomnoy energii, Zheneva, 1958.

(Plasma (Ionized gases)) (Thermonuclear reactions)

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B111/B112

AUTHORS: Korablev, L. V., Morozov, A. I., and Solov'yev, L. S.

TITLE: Magnetic surfaces

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 10, 1961, 1153-1163

TEXT: In connection with magnetic plasma traps, a formula for magnetic equipotential surfaces in curvilinear coordinates adapted to the lines of force is derived on the following assumptions: 1) The entire field \vec{H} consists of a quasi-homogeneous, longitudinal part \vec{H}^3 and a relatively small perturbation \vec{h} . 2) \vec{h} is a periodic function of x_3 , and its average over x_3 is zero; the coordinates x_3 coincide with the lines of force of the field \vec{H}^3 . The formula reads $\vec{A}_3 - \frac{\sqrt{g}}{H_0^3} \hat{H}^1 H^2 = \text{const}$, where A_3 is the longitudinal, covariant component of the vector potential, H_0^3 is the constant part of the longitudinal field, and H^1 are the components of the "transverse" field, which are small compared with H_0^3 . g is the functional

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Magnetic surfaces

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If the field is helically symmetric, the magnetic surfaces can be exactly determined in this case. All magnetic surfaces discussed here (rosette, chains and intertwined tubes) are significant for plasma trapping. If the position of a magnetic surface and the distribution of the lines of force on it are known, it will be possible to construct the adjacent surfaces. At a normal distance w from the given surface, fields with translational symmetry ($\vec{H} = \vec{H}(x, y)$), axial symmetry ($\vec{H} = \vec{H}(r, z)$), and helical symmetry ($\vec{H} = \vec{H}(r, \theta)$) are given by $wH_{\perp} = \text{const}$, $wrH_{\perp} = \text{const}$, and $w\sqrt{1 + \alpha^2}r^2 = \text{const}$, respectively, where H_{\perp} is the magnetic-field component on the given surface, which is perpendicular to z , to the ψ -lines, and to the helical lines $\theta - \psi - \alpha z = \text{const}$, respectively. I. M. Gel'fand, M. I. Grayev, and M. A. Leontovich are thanked for discussions. There are 10 figures and 6 references: 4 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: Ref. 3: L. Spitzer, The stellarator program, report at the Second Geneva Conference 1958, Ref. 4: J. I. Johnson et al., Second Geneva Conference 1958.

SUBMITTED: November 5, 1960

Card 3/3

L 22132-66 EWT(1)/ETC(f)/EPF(n)-2/ENG(m) IJP(c) AT

ACC NR: AP6004940

SOURCE CODE: UR/0056/66/050/001/0220/0231

AUTHOR: Rudakov, I. I.; Korablev, I. V.

ORG: none

TITLE: Quasilinear theory of current instability in a plasma

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 220-231

TOPIC TAGS: plasma instability, electron temperature, ion temperature, Coulomb collision, plasma interaction, plasma oscillation, plasma heating, plasma flow, electric field, current stabilization

ABSTRACT: The authors present an analytic solution of the problem of instability of a current flowing in a plasma situated in a specified electric field, in the quasilinear approximation. The electron temperature is assumed to be much higher than the ion temperature. Coulomb collisions are neglected completely. The initial equations are the same as used by E. C. Field and B. D. Fried (Phys. Fluids v. 7, 1937, 1964), except that in the present article the authors take into account several additional important features of the phenomenon. The specified electric field is assumed to be sufficiently large so that the Coulomb collisions do not interfere with the free acceleration of most of the electrons. The re-

Card 1/2

current instability is described in detail. It is shown that during a certain period of time the current remains constant and subsequently, as a result of the electron heating, runaway electrons appear and thus cause an increase of the current with further increase in time. The rate of ion heating during the process is also calculated. The results are applied to the instability of the current in a bounded plasma and in a strong magnetic field. Orig. art. has 24 formulas.

APPROVED FOR RELEASE: 03/13/2001

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SUB CODE: 20/ SUBM DATE: 24Jul65/ ORIG REF: 004/ OTH REF: 004

Card 2/2 BK

KORABLEV, M.

Civil defense groups in rural districts. Voen. znan. 33 no.2:
22 F '57. (MLRA 10:4)
(Civil defense)

BABKIN, I.A.; BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VOZNESENSKIY, V.V.;
DANILYUK, V.S.; ZAPOL'SKIY, G.N.; ZUBKIN, A.S.; IL'YASHEV, A.S.;
KIPRIYAN, K.M.; KONDRAT'YEV, P.V.; KORABLEV, M.D.; LEBEDEVA,
Yu.A.; MAKAROV, Yu.K.; MIROSHNIKOV, I.P.; NOVICHENKO, I.P.;
POPOV, A.V.; SEREBRYAKOV, V.A.; KANEVSKAYA, M.D., red.; ANDRIANOV,
B.I., tekhn.red.

[Protecting the public from present-day means of destruction;
a textbook for organizations of the All-Union Voluntary Society for
the Promotion of the Army, Aviation, and Navy] Zashchita naseleniya
ot sovremennykh sredstv porazheniya; uchebnoe posobie dlia organi-
zatsii Vsesoyuznogo dobrovol'nogo obshchestva soдейstviya armii,
aviatsii i flotu. Moskva, Izd-vo DOSAAF, 1958. 334 p. (MIRA 12/4)
(Civil defense)

KORABLEV, M., podpolkovnik

Self-defense group at its studies. Voen.znan. 34 no.4:35 Ap '58.
(Air defenses) (MIRA 11:4)

KORABLEV, M.

~~WAS~~ Rules for the conduct of the population in a threatening
situation and in accordance with signals of Local Antiaircraft
Defense. Voen. znani. 34 no.9:30-31 S '58. (MIRA 11:10)
(Air defenses)

KORABLEV, M.D.

PHASE I BOOK EXPLOITATION SOV/4036

Vsesoyuznoye dobrovol'noye obshchestvo sodeystviya armii, aviatsii
i flotu

Uchebno-metodicheskoye posobiye po provedeniyu trenirovok i priyemu
norm "Gotov k PVO" 2-y stupeni; rekomendovano TsK DOSAAF SSSR dlya
obshchestvennykh instruktorov PVO (Textbook for the Training in
and Application of the Standards for First Class in "Ready for
Air Defense"; Recommended by the Central Committee of DOSAAF
USSR for Public Instructors of Air Defense). Moscow, Izd-vo
DOSAAF, 1959. 112 p. No. of copies printed not given.

Eds.: G.N. Zapol'skiy, M.D. Kanevskaya, and M.D. Korablev; Tech.
Ed.: V.N. Gerasimova.

PURPOSE: This textbook is intended for public instructors teaching
a 14-hour course in civil air defense to persons who have com-
pleted the preliminary 22-hour training program of the PVO (Air
Defense).

COVERAGE: The textbook consists of eight outlines corresponding to
the standards set for first class "Ready for Air Defense" quali-
Card 1/3

Textbook for the Training (Cont.)

SOV/4036

fication. The contributors to the book are: I.A. Babkin, V.M. Velyugo, P.D. Divakov, G.N. Zapol'skiy, K.M. Kipriyan, M.G. Kiselev, M.D. Korablev, G.A. Silkov, and I.Ya. Smorodin.

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Activities for the Fourth Syllabus "Preventive Fire Fighting Measures and Extinction of Incendiaries and Fires"

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Card 2/3

IVANOV, Nikolay Nikolayevich; KANEVSKAYA, M.D., red.; KORABLEV, M.D.,
red.; ELAZHENKOVA, G.I., tekhn.red.

[Be prepared for defense against aircraft attack] Bud' gotov
k PVO. Moskva, Izd-vo DOSAAF, 1959. 123 p. (MIRA 13:4)
(Air defenses)

KORABLEV, Mikhail Dmitriyevich; LEBEDEV, Yuliya Aleksandrovna; SHESTERIKOVA, Lyudmila Pavlovna. Prilozheniye uchastiye: MIROSHNIKOV, I.P.; red.; SEROV, M.F.; NIKIFOROV, A.M.. KANEVSKAYA, M.D., red.; ANDRIANOV, B.I., tekhn.red.

[Local antiaircraft defense in rural districts] MPVO v sel'skoi mestnosti. Pod red. I.P.Miroshnikova. Moskva, Izd-vo DOSAAF, 1959. 198 p. (MIRA 12:12)

1. Glavnyy agronom Glavnoy gosinspeksii po karantinu i zashchite rasteniy Ministerstva sel'skogo khozyaystva SSSR (for Nikiforov). (Air defenses)

KORABLEV, M.; KAZHAYEV, A.

How to conduct training in the first stage of "Ready for air defense"
regulations. Voen. znan. 35 no.5:32-35 My '59.

(MIRA 12:12)

(Air defenses)

KORABLEV, Mikhail Dmitriyevich; KANEVSKAYA, M.D., red.; FAYNSHMIDT, F.Ya.;
tekhn.red.

[Maintenance of order and security as part of the civil air
defense] Okhрана obshchestvennogo poriadka i bezopasnosti v
usloviakh PVO. Moskva, Izd-vo DOSAAF, 1960. 28 p. (MIRA 13:9)
(Air defenses)

KORABLEV, Mikhail Dmitriyevich; KANEVSKAYA, M.D., red.; KOROLEV, A.V.,
tekhn. red.

[Participation of the population in civil defense] Uchastie naselenia
v avariino-spasatel'nykh rabotakh. Moskva, Izd-vo DOSAAF, 1960. 45 p.
(MIRA 14:7)

(Civil defense)

KORABLEV, M.

Dispersing and evacuating the population. Voen.znan. 36
no.7:33-34 J1 '60. (MIRA 13:7)
(Civil defense)

KORABLEV, M.

Instructions in second-degree work in "Ready for Air Defense."
Voen.znan. 36 no.11:34-36 N'60. (MIRA 13:11)
(Air defenses)

KORABLEV, M.

Fire fighting under complex battle conditions. Voenn. znan.
37 no. 2:34-35 F '61. (MIRA 14:1)
(Fire extinction)

KORABLEV, M.

Example of the workers at the Lenin Factory. Voen. znan. 37
no.12:35-36 D '61. (MIRA 14:11)
(Moscow--Industry--Defense measures)

KORABLEV, M.

If the alert signal is given. Voen. snan. 38 no.6:33-34 Je '62.
(MIRA 15:6)
(Civil defense)

BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VINOGRADOV, L.V.; VOZNESENSKIY,
V.V.; DANILYUK, V.S.; ZUBKIN, A.S.; IL'YASHEV, A.S.; ~~KORABLEV~~,
M.D.; LEBEDEVA, Yu.A.; MAKAROV, Yu.K.; MIROSHNIKOV, I.P.;
~~NOVICHENKO~~, I.P.; POPOV, A.V.; SEREBRAKOV, V.A.; VARENNIKOV,
I.S., red.; GODINER, F.Ye., red.; SORKIN, M.Z., tekhn. red.

[Protecting the population from present-day means of
destruction] Zashchita naseleniia ot sovremennykh sredstv po-
razheniia; uchebnoe posobie dlia organizatsii DOSAAF. Pod ob-
shchei red. I.S.Varennikova i L.V.Vinogradova. Izd.2., perer.
i dop. Moskva, Izd-vo DOSAAF, 1962. 254 p. (MIRA 16:4)
(Civil defense)

PHASE I BOOK EXPLOITATION

SOV/6426

8
Bogolyubskiy, G. N., I. I. Burlinov, L. V. Vinogradov, V. V. Voznesenskiy,
V. S. Danilyuk, A. S. Zubkin, A. S. Il'yashev, M. D. Korablev, Yu. A.
Lebedeva, Yu. K. Makarov, I. P. Miroshnikov, I. P. Novichenko, A. V.
Popov, and V. A. Serebryakov

Zashchita naseleniya ot sovremennykh sredstv porazheniya; uchebnoye
posobiye dlya organizatsii DOSAAF (Protection of the Population From
Modern Means of Destruction; Handbook for DOSAAF Organizations)
2d ed., rev. and enl. Moscow, DOSAAF, 1963. 254 p. 450,000 copies
printed.

Sponsoring Agency: Vsesoyuznoye ordena krasnogo znameni Dobrovol'noye
obshchestvo sodeystviya armii, aviatsii i floty.

Eds. (Title page): I. S. Varennikov and L. V. Vinogradov; Compilers: M. D.
Korablev and Yu. A. Lebedeva; Ed.: F. Ye. Godiner; Tech. Ed.: M. Z.
Sorkin.

Card 1/1

KORABLEV, M.; IGOSHIN, M.G., red.; CHUMAKOV, V.I., red.; BLAZHENKOVA,
G.I., tekhn.red.

[Rescue work and emergency repair operations at centers of
nuclear explosions] Spasatel'nye i neotlozhnye avariino-
vosstanovitel'nye raboty v ochagakh iadernykh vzryvov. Mo-
skva, Izd-v0 DCSAAF, 1963. 36 p. (MIRA 17:3)

KORABLEV, M.I.

The IM-60-1 machine for molding capron. Biul. tekhn.-ekon. inform.
no. 4:23-24 '61. (MIRA 14:5)
(Nylon) (Plastics—Molding)

KORABLEV, M. V.

"Search for Preparations Acting Principally on the Blood and the Hemopoietic Organs (Experimental Investigation)." Cand Med Sci, Minsk State Medical Inst, Minsk, 1955. (KL, No 17, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

USSR/Pharmacology and Toxicology. Narcotics

V-1

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 71070

Author : Korablev M.V.

Inst : -

Title : Antabuse - Inhibitor of Hemopoiesis

Orig Pub : Zh. nevropatol. i psikhiiatrii, 1957, 57, No 10, 1248-1252

Abstract : A repeated intraperitoneal administration of antabuse (A) to rabbits in doses of 200 mg/kg., and higher, is accompanied by the development of leukopenia together with anemia. Alongside with its action upon the formed elements of the peripheral blood, A produces considerable depletion of the bone marrow of myelokaryocytes. On the 18th-30th day following the first administration of A, the rabbits perish in convulsions which usually develop against a background of apparent well-being. It is to be noted that the described action of A manifests itself only when administered doses considerably exceed those used under clinical conditions.

Card : 1/1

Chair Pharmacology - Minsk Med Inst.

KORABLEV, M.V.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824530004

Effect of tiuram polysulfides on the course and outcome of alcoholic intoxication. Farm. i toks 22 no.3:259-261 My-Je '59. (MIRA 12:7)

1. Kafedra farmakologii (zav. - prof. K.S. Shadurskiy) Minskogo meditsinskogo instituta i kafedra farmakologii (zav. - dotsent V. I. Zavrashnov) Voronezhskogo meditsinskogo instituta.

(DISULFIRAM, rel. cpds.

polysulfide deriv., eff. on alcoholic intoxication (Rus))

KORABLEV, M.V.

Synergism between polysulfides and narcotics. Biul. eksp. biol. i
med. 48 no.12:66-68 D '59. (MIRA 13:5)

1. Iz kafedry farmakologii (zav. - dotsent V.I. Zavrashnov) Voro-
nezhskego meditsinskogo instituta. Predstavlena deystvitel'ny
chlenom AMN SSSR V.V. Parinym.

(SULFIDES pharmacol)

(NARCOTIS pharmacol.)

SHADURSKIY, K.S., prof.; IL'YUCHENOK, T.Yu., kand.med.nauk.; ISKAREV,
N.A., kand.med.nauk.; KOMISSAROV, I.V., kand.med.nauk.; KORABLEV,
M.V., kand.med.nauk.; MYAZDRIKOVA, A.A., kand.med.nauk.; NILOVSKAYA,
S.N., kand.med.nauk.; REUT, N.A., kand.med.nauk.; YAKIMOVICH, L.A.,
kand.med.nauk.; GES', N.D., red.; BELEN'KAYA, I.Ye., tekhred.

[Prescription manual] Bukovodstvo po retsepture. Izd.2., ispr.
i dop. Minsk, Izd-vo Belgosuniv. im. V.I.Lenina, 1960. 99 p.
(MIRA 14:1)

(MEDICINE---FORMULAE, RECEIPTS, PRESCRIPTIONS)

KORABLEV, M.V.

Pharmacology of sodium dimethyldithiocarbamate. Farm.1 toks. 23
no.2:161-166 Mr-Ap '60. (MIRA 14:3)

1. Kafedry farmakologii (sav. - dotsent V.I.Zavrazhnov) Voronezhskogo
gosudarstvennogo meditsinskogo instituta.
(CARBAMIC ACID) (THIOUREA)

KORABLEV, M.V.

Effect of sodium nucleate on the course and outcome of leukopenia produced with tetrathion (tetramethylthiuramdisulfide). Biul. eksp. biol. i med. 50 no.12:58-61 D '60. (MIRA 14:1)

1. Iz kafedyy farmakologii (zav. - dotsent V.I. Zavrazhnov) Voronezhskogo meditsinskogo instituta. Predstavlena deystvitel'nyy chlenom AMN SSSR V.V. Barinym.

(LEUKOCYTES)

(NUCLEIC ACIDS)

(DISULFIDE)

KORABLEV, M.V.

Potentiation of medicated sleep with 6-methylthiouracil and rubeane
hydride. Biul. eksp. biol. i med. 52 no.8:67-70 Ag '61.

(MIRA 15:1)

1. Iz kafedry farmakologii (zav. - dotsent V.I.Zavrazhnov) Voronezh-
skogo meditsinskogo instituta. Predstavlena deystvitel'nyy chlenom
AMN SSSR V.V.Zakusovym.

(SLEEP THERAPY)

(URACIL)

(OXAMIDE)

KORABLEV, M.V.

Simplified modification of the Sitkovskii-Egorov device. Zdrav.
Bel. 8 no.5:60-61 My '62. (MIRA 15:10)

1. Iz kafedry farmakologii (zav. - kand.med.nauk M.V.Korablev)
Grodenskogo meditsinskogo instituta i kafedry farmakologii
Voronezhskogo meditsinskogo instituta.
(PHARMACOLOGY--EQUIPMENT AND SUPPLIES)

KORABLEV, M.V.

Effect of sulfur-containing compounds and urea on the duration of medication sleep. Farm. i toks. 25 no.1:47-55 Ja-F '62.

(MIRA 15:4)

1. Kafedra farmakologii (zav. - dotsent V.I.Zavrazhnov) Voronezhskogo meditsinskogo instituta.

(SLEEP THERAPY) (UREA) (SULFUR COMPOUNDS)

IL'YUCHENOK, T.Yu., kand. med. nauk; ISKAREV, N.A., kand. med. nauk;
KORABLEV, M.V., kand. med. nauk; REUT, N.A., kand. med. nauk;
YAKIMOVICH, L.A., kand. med. nauk; KHOMICH, N.V., assistant;
SHADURSKIY, K.S., prof.; KRYUKOVSKAYA, B., red.; YERMOLENKO, V.,
tekhn. red.

[Manual on prescriptions] Rukovodstvo po retsepture. Izd. 3.,
ispr. i dop. Minsk, Izd-vo "Belarus", 1963. 178p.
(MIRA 17:2)

*

VISHNEVAKAYA, S.M.; SHEVCHUK, M.K.; KRAMARENKO, D.P.; KHVALIBOVA, E.I.;
MUKVOZ, L.G.; GUREVICH, Ye.P.; KORNIYENKO, Ye.I.; POTEYEVA, N.A.;
PISARENKO, Ye.I.; LOY, D.D.; ~~KORABLEV, N.G.~~ GELLER, I.Yu.

Epidemiology and prevention of helminth infections in the zone
affected by the construction of Kakhovska reservoir and ghydro-
electric station and the Upper-Ingulets Canal. Med.paras. i paras.
bol. 25 no.2:121-127 Ap-Je '56. (MLRA 9:8)

1. Iz gel'mintologicheskogo otdeleniya Instituta malyarii i meditsin-
skoy parazitologii imeni prof. V.Ya.Rubashkina Ministerstva zdrazo-
okhraneniya Ukrainskoy SSR (dir. instituta I.A.Demchenko, sav.
otdeleniyem - prof. Ye.S.Shul'man) i Dnepropetrovskoy Zaporozhskoy,
Khersonskoy, Nikolayevskoy oblastnykh sanitarno-epidemiologicheskikh
stantsiy.

(HELMINTH INFECTIONS, prev. and control
in Russia, eff. of reservoir & canal constructions)

KORABLEV, N. G., GELLER, I. YU., VISHNEVSKAYA, S. M., SHEVCHUK, M. K.,
EVALIBOVA, E. I., MUDVOZ, L. G., KORNEYENKO, E. I., BEZFAMILNAYA, P. S.
and LOY, T. D.

"The Epidemiology and Prophylaxis of Helminthiasis in the Zone Affecting the Construction of the Kakhovka Hydroelectric Power Station, the Water Reservoir, and the Verkhne-Ingulets Canal."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

S/282/63/000/001/004/011
A059/A126

AUTHORS: Korablev, N.M., Voroshilova, N.M., Shkol'man, Ye.Ye.

TITLE: Dispersion of pigments for varnishes and paints in the binder with the aid of ultrasound

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 47. Khimicheskoye i kholodil'noye mashinostroyeniye, no. 1, 1963, 7, abstract 1.47.44 (Lakokrash. materialy i ikh primeneniye, no. 4, 1962, 56 - 59)

TEXT: The dispersion process of zinc-white paints in the binder is examined with different paint concentrations using magnetostrictive and piezoelectric converters as the generator of ultrasound. It has been established that, instead of rubbing zinc-white paints in ball and color mills, their pastes can be treated with ultrasound having a frequency of 18 kc and an intensity of 3 w/cm². Enamels prepared with ultrasound and filtered show no qualitative difference as compared to enamels prepared under the usual operating conditions. There are 3 figures and 4 references.

[Abstracter's note: Complete translation]

Card 1/1

KORABLEVA, N.P.; METLITSKIY, L.V.

Effect of gamma irradiation on the growth of onions and their content of nucleic acids. Dokl. AN SSSR 150 no.5:1153-1156 Je '63.
(MIRA 16:8)

1. Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.I.Oparinym.

(Plants, Effect of gamma rays on) (Onions) (Nucleic acids)

KORABLEV, P. A.

Mining Engineering

Dissertation: "Investigation of the Precision of Machining on Combined Boring Machines in Aviation Instrument Building." Cand Tech Sci, Moscow Aviation Technological Inst, 19 Mar 54. (Vechernyaya Moskva Moscow, 8 Mar 54)

SO: SUM213, 20 Sep 1954

KORABLEV, P.A.

Ensuring the coaxiality of holes drilled in workpieces on multiple-head precision boring machines. Priberostroenie no.10:14-15 0 '56.
(Drilling and boring machinery)

KORABLEV, P.A., KEMAYEV, A.M.

Effect of allowance irregularity on the precision of cylindrical
surface shape. Priborostroenie no.11:17-20 N°6. (MIRA 10:1)
(Surfaces (Technology))

KORABLEV, P. A. (Cand. Tech. Sci.)

"Summation Methods for Error Scatter in Dimensions and Shape," in book
Some Problems in the Modern Technology of Instrument Making, Moscow, Oborongiz,
1957. 126 p. Moscow. Aviatzionnyy tekhnologicheskii institut.

This article analyzes accuracy of shape and accuracy of dimensions of machined parts. The author develops a method for adding up inaccuracies of shape and inaccuracies of dimensions and gives useful tables which make it possible to determine the spread of overall error for the given relation δ_s / δ_D (where δ_s = inaccuracy in shape, and δ_D = inaccuracy in dimensions)

KORABLEV, P.A., kandidat tekhnicheskikh nauk.

Methods for summing the dispersion of errors in shapes and sizes.
Trudy MATI no.33:57-73 '57. (MIRA 10:10)
(Errors, Theory of)

KORABLEV, P.A., kand.tekhn.nauk, dots.

Determining the rigidity of machine tools and technological systems under shop conditions. Izv.vys.ucheb.zav.; mashinostr. no.6:150-153 '58. (MIRA 12:8)

1. Moskovskiy aviatsionno-tekhnologicheskii institut.
(Machine tools--Testing)

AUTHORS: Korablev, P.A., Fefor, A.I. SOV/119-58-7-8/10

TITLE: On the Problem of Adjusting Rotary Automatic Machines
(K voprosu o podnaladke tokarnykh avtomatov)

PERIODICAL: Priborostrroyeniye, 1958, Nr 7, pp. 26-28 (USSR)

ABSTRACT: The basic system of an automatic adjusting apparatus operates as follows: The measuring device, which indicates the total dimensions of the working parts in-as-much as they deviate from those to which they are adjusted emits electric pulses in accordance with these deviations. The latter are transmitted to the organ operating the cutter tool, the height and the direction of the pulses determining the shifting of this tool.
The following may be said as the result of experimental tests:

- 1.) The wear of the cutting tool exercises the greatest influence upon the accuracy of the working parts.
- 2.) This influence causes displacement above all in one direction, so that in automatic adjustment only a simple mechanism is necessary for the purpose of eliminating this fault.
- 3.) Faults of shapes can be measured together with faults of dimensions by means of rotary automatic machines.

Card 1/2

On the Problem of Adjusting Rotary Automatic Machines

SOV/119-58-7-8/10

4.) Faults with respect to shapes and dimensions are quite considerable with working conditions being as they are just now, so that automatic adjustment is rendered rather difficult. At present a device for the automatic re-adjustment of a rotary automatic apparatus is being developed by a plant which manufactures these apparatus. There are 5 figures, 2 tables, and 1 Soviet reference.

1. Machine tools (Automatic)---Control systems

Card 2/2

PHASE I BOOK EXPLOITATION

80V/5012

Korablev, Petr Aleksandrovich

Obrabotka na agregatnykh stankakh v priborostroyeni (Processing on Unit-Head Machine Tools in the Instrument Industry) Moscow, Mashgiz, 1960. 164 p.
5,000 copies printed.

Reviewer: M.S. Udalov, Engineer; Ed.: M.S. Yelisseyev, Engineer; Tech. Ed.: Z.I. Chernova; Managing Ed. for Literature on Machine Building and Instrument Construction: N.V. Pokrovskiy, Engineer.

PURPOSE: This book is intended for technical personnel of the instrument industry. It may also be used by students at schools of higher technical education and tekhnikums who are majoring in instrument construction.

COVERAGE: The book contains systematic data on the following problems connected with the machining of parts on unit-head machine tools in the instrument industry: the designing of unit power heads, attachments, fixtures, jigs, and cutting tools; methods used in the machining of parts; the determination of cutting regimes;

~~Card 1/4~~

KORABLEV, P.A., kand.tekhn.nauk; SUMINOV, V.M., inzh.

Rigidity of machine tools and methods for its determination.
Vest.mash. 40 no.9:55-57 S '60. (MIRA 13:9)
(Machine tools--Testing)

22494

S/536/60/000/047/002/002

E113/E135

1100

2908

AUTHORS:

Korablev, P.A., Candidate of Technical Sciences, Docent,
and Suminov, V.M., Engineer.

TITLE:

Investigation of accuracy of reaming and broaching
operations

PERIODICAL:

Moscow. Aviatsionnyy tekhnologicheskii institut.
Trudy. No. 47. Moscow, 1960. Nekotoryye voprosy
tochnosti tekhnologii proborostroyeniya, pp. 60-66.

TEXT:

Reaming and broaching are methods of accurate
machining of holes by means of a dimensional cutting tool, i.e.
such a tool whose dimensions are transmitted to the component to
be machined. The total error when a machining operation is carried
out by a dimensional instrument can be found from the following
formula:

$$\Delta = \Delta_{ve} + \sqrt{\Delta_{me}^2 + \Delta_{tool}^2}$$

(1)

where Δ_{ve} - value of the variable systematic error caused by the
wear of the cutting tool; Δ_{me} - value of the instantaneous error

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S/536/60/000/047/002/002

E113/E135

X

Investigation of accuracy of reaming and broaching operations of machining; Δ_{tool} - value of the tool's manufacturing tolerance. It has been shown by experiment that the wear characteristic of reamers and broaches is approximately a straight line when plotted against the quantity of components machined. This allows the introduction of relative tool wear u_0 , i.e. tool wear related to 1000 m. of cutting length. Hence, Δ_{ve} is calculated from the formula:

$$\Delta_{\text{ve}} = 2u_0 \ell / 1000 \quad (2)$$

where ℓ - length of cutting. The cutting length may be found in terms of the dimensions of the tool and the component. The instantaneous error Δ_{me} depends on a number of technological factors and its values have been found by experimental methods for various cases. It has been established that the main factors affecting the instantaneous error are the number of passes in reaming and the number of passes as well as the conditions of clamping the component being broached, (i.e. whether the component is clamped with a machined or unmachined surface as the contact area),

Card 2/ 5

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E113/E135

Investigation of accuracy of reaming and broaching operations

Apart from that, experiments have shown that the total machining error is greatly affected by irregularities in the cross section of the component such as ovality. The manufacturing tolerance of the tool has been taken as 0.005 mm. On the basis of the method developed, the accuracy in reaming and broaching has been calculated and plotted, Fig.6: accuracy characteristics in reaming and broaching operations (continuous lines show the standard fields of tolerances; dotted lines give the values of the total machining errors without taking into account the errors resulting from wear). Field of dispersion, microns, vs. diameters, mm.

1 - broaching and reaming in one operation; 2 - broaching in two operations; 3 - reaming in two operations.

To these values the calculated error caused by the wear of the cutting tool Δ_{ve} should be added. It has been shown experimentally that in case of reaming, the diameter of the hole to be machined increases relative to the diameter of the reamer. The value of this increase for steel, cast iron and aluminium components has been found to be between 0.002-0.017 mm for hole
Card 3/ 5

22494

S/536/60/000/047/002/002
E113/E135

X

Investigation of accuracy of reaming and broaching operations diameters of 20-35 mm with average values of 0.005 mm. In the case of broaching holes under similar conditions, shrinkage of diameters by 0.002-0.021 mm has been observed, the average value being 0.009 mm. The shrinkage develops as a result of the elastic deformation of the components (tubes with wall thickness of 3-5 mm). There are 6 figures.

Card 4/5

KORABLEV, P.A.; UDALOV, M.S., inzh., retsenzents; IVANOVA, N.A.,
red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Precision of machining with machine tools in the instrument
industry] Tochnost' obrabotki na metallorezhushchikh stankakh
v priborostroenii. Moskva, Mashgiz, 1962. 224 p.

(MIRA 15:8)

(Instrument industry) (Metal cutting)

S/536/61/000/052/004/008
D201/D301

AUTHORS: Korablev, P.A., Candidate of Technical Sciences, Docent
and Suminov, V.M., Engineer

TITLE: The effect of stiffness of the mechanical system on the
wear of a cutting instrument

SOURCE: Moscow. Aviatsionnyy tekhnologicheskii institut. Trudy,
no. 52, 1961. Nekotoryye voprosy sovremennoy tekhnologii
priborostroyeniya, 45 - 51

TEXT: The authors consider the results of experimental determina-
tion of wear of a cutting tool as dependent on the stiffness of
bench instrument workpiece system, by the process of manufacturing
workpieces from various materials on turret lathes and milling and
on cylinder- and - cone grinding machines. The experiments were car-
ried out with blanks of identical dimensions on benches, the stiff-
ness of which was determined by technological methods. The quantity
of blanks in one batch was 70 - 100, the operations were carried out
using the same, if possible, cutting methods and same shape and sa-
me cutting tool. Blanks were chosen so as to have much greater stiff
Card 1/2

The effect of stiffness of the ...

S/536/61/000/052/004/008
D201/D301

ness than that of the bench. The blank materials were as follows:
Steel 2X13 (2Kh13), 3X474 (EI474), 49X (49Kh), 40, 50, bronze
БРАМЦ 9-2 (BRAMTs9-2), duralumin Д16А-Т (D16A-T). The results
have proved that in order to reduce the wear of the cutting tool and
to increase the degree of precision of work, cleanliness of workpie-
ce surface and reproducibility, one of the most important condi-
tions to be observed is the stiffness of the whole mechanical sys-
tem. There are 6 figures, 1 table and 1 Soviet-bloc reference.

Card 2/2

KORABLEV, P.A.; SUMINOV, V.M.; URAZAYEV, Z.F., kand. tekhn. nauk,
retsenzent; FRID, L.I., inzh., red.; DEMKINA, N.F.,
tekhn. red.

[Automatic control of the readjustment of cutting tools on
automatic lathes] Avtomatizatsiia podnastroiki instrumenta na
tokarnykh avtomatakh. Moskva, Mashgiz, 1963. 129 p.
(Lathes) (Automatic control) (MIRA 16:10)

KORABLEV, P.A., kand. tekhn. nauk, dotsent

Increasing the precision and efficiency of machining parts
by the adjustment of machine tools. Trudy MATI no.59:169-
175 '64. (MIRA 17:10)

GORUKHIN, Vladimir Mikhaylovich; KORABLEV, S.B., red.

[Use in the chemical and metallurgical industries of
recording and controlling techniques] Primenenie v khi-
micheskoi i metallurgicheskoi promyshlennosti registri-
ruiushchei i upravliaiushchei tekhniki. Leningrad, 1964.
34 p. (MIRA 18:1)

KORABLEV, S.I.

Maxillary prognathism in combination with microgenia and open bite. Kaz.med.zhur. 40 no.5:87-89 S-0 '59. (MIRA 13:7)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - prof. I.M. Okseman) Kazanskogo meditsinskogo instituta.
(PROGNATHISM) (ORTHODONTIA)

3(2) PHASE I BOOK EXPLOITATION SOV/3433

AKADEMIYA NAUK SSSR. Institut mashinovedeniya

Trudy, tom 1: Vtoraya nauchno-tekhnicheskaya konferentsiya aspirantov i mladshikh nauchnykh sotrudnikov (Transactions of the Institute of Machine Sciences, Academy of Sciences, USSR, Vol. 1: Second Scientific and Technical Conference of Aspirants and Junior Scientific Workers) Moscow, 1959. 182 p. Errata slip inserted. 1,000 copies printed.

Resp. Ed.: A.K. D'yachkov, Doctor of Technical Sciences, Professor; Tech. Ed.: B.K. Shorin.

PURPOSE: This book is intended for technical personnel engaged in the design of machines and mechanisms.

COVERAGE: This collection of scientific papers, presented at a conference held July 23, 1958 deals with the theory of machines and mechanisms, strength of machine parts, friction and wear in machines, and machine-building technology.

65 Kremzhukov, E.M. Theoretical Basis for Determining Accuracy of Spur Gears With W.L. Morikov Tooth Action

69 Koroblyak, S.S. Investigation of Resonance Properties of Mechanical Systems

Results of theoretical and experimental investigations of the process of transition through resonance in mechanical vibrating systems are presented. The results of an investigation of resonance properties of a centrifugal vibrator with non-linear restoring forces are discussed.

89 Baskirkin, L.A. Dynamics of the Transition Through Resonance of Vibrations of Shafts With Different Masses

With the Compling to an Eigenvalue Into Account Vibrations of shafts with different principal-inertia moments during transition through the zone of static instability are investigated. Equations of motion and methods for their solution are presented.

101 Osipov, K.A. Investigating the Process of Producing Splines on Shafts by Broaching or Planing With Tang Tools

Basic theoretical considerations on the selection of methods for cutting splines in shafts are developed. Broaching and planing are experimentally investigated and recommended as the most efficient methods for cutting splined shafts in large-lot and mass production.

121 Kozlov, L.Ye. Investigation of Methods of Compacting Casting Molds

The effect of vibrations on the process of compacting molds by compression is investigated. Results indicate that vibrations make it possible to obtain uniformity of density at compaction pressures several times lower than those used in compaction without vibration.

131 Pashin, M.M. Investigation of Contact Areas of Rough Surfaces

The relationship between the contact area (consisting of elastic and plastic contact areas), the surface roughness, and the material properties of two surfaces in contact is investigated. Results indicate that the size of the actual contact area is considerably affected by the geometry of the surface.

143 Brashchin, M.D. Investigation of the Accuracy of Determining Wear by the Method of Crescent-shaped Indentations

An experimental investigation was made of the accuracy of determining metal wear by the indentation method, involving measurement of the length and calculation of the reduction of depth of a crescent-shaped recess cut into the metal surface. The method of investigation and the special instruments used are described.

155 Makhsheev, A.I. Investigation of Lubricant Circulation in a Model of the Oil Bath of a Vertical-pivot Thrust Bearing Used in Large Hydraulic Turbines

Lubricant flow in the bath and between shoes of a thrust bearing (without cooling) was investigated by a thermodynamic method. A testing machine, built for this purpose at the Hydrodynamic Friction Laboratory, Institute of Machine Building, Academy of Sciences, USSR, is used. The results of the investigation are described.

167 Khurshudov, G.Sh. Investigation of Stresses in Frames With Plate-like Cross Sections

The author discusses an experimental and theoretical investigation of stresses in composite and solid frame structures. The non-linear distribution of stresses and strains are shown in diagrams.

KORABLEV, S.S.

Investigating resonance properties of mechanical systems.

Trudy Inst. mash. 1:75-88 '59.

(MIRA 12:12)

(Vibrators--Testing) (Resonance)

68472

S/179/59/000/06/023/029
E191/E181

Author: KOROTKOV, S.S. (Moscow)

TITLE: On the Peculiarities of Resonant Vibrations in Two Mechanical Systems

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 6, pp 137-140 (USSR)

ABSTRACT: The paper develops further the analysis of Kononenko, V.O. (Refs 1, 2). The vibrating system consists of a mass (base plate) mounted on elastic supports (with equal vertical and horizontal stiffnesses). The mass includes a motor (mounted on the baseplate) with a rotor having a certain moment of inertia and an unbalance provided by a certain mass at a certain eccentricity. The motor torque is given by its static characteristic curve (torque against speed). Damping is taken into account in all three degrees of freedom, namely the vertical and horizontal displacements of the motor and the rotation of the unbalance mass. The three equations of motion are set up and solved by the averaging method using the assumptions that the oscillations are near harmonic and that the angular velocity of the unbalance mass varies

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On the Peculiarities of Resonant Vibrations in Two Mechanical Systems

slowly compared with the vibration period. These assumptions permit substitutions by which the equations of motion are reduced to a standard form wherein the variable coefficients are replaced by constants using the integral mean values during one period and so obtaining equations for the first approximation from which the amplitude and frequency in the vicinity of resonance can be obtained. Another system, in which torsional vibrations are excited by the inertia forces of unbalanced rotating masses, is illustrated. The system, embodied in a fatigue test rig for crankshafts, consists of a shaft with an inertia disc at one end. The other end carries two arms with journals at their extremities about which unbalanced masses rotate, being driven by intermediate planetary gears meshing with a sun-gear on the shaft. The whole unit is rotated by a motor. The angular coordinates on the inertia disc and the arm and of the planetary unbalance masses are the three degrees of freedom. A similar method of analysis is applied to the equation of motion as above. In both cases, the frequency equation can have one or three real roots. Some of these may have unstable solutions.

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S/175/59/000/06/023/029
E191/Z121

On the Peculiarities of Resonant Vibrations in Two Mechanical Systems

An analysis of stability shows that the descending branches of the resonance curves are unstable and the resonance curves plotted for stable solutions are different for increasing and decreasing frequencies. Experiments were carried out with mechanical models of the two systems as analysed. The experimental results are given in the form of resonance curves showing good agreement between measurement and analysis and the existence of unstable regions where the curves are interrupted.

Card

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There are 4 figures and 7 Soviet references.

SUBMITTED: May 26, 1959

KORABLEV, S. S., Cand Tech Sci (diss) -- "Investigation of resonance phenomena in oscillating systems of machines taking into account motor characteristics". Moscow, 1960. 13 pp (Acad Sci USSR, Inst of Machine Science), 150 copies (KL, No 11, 1960, 132)

KONONENKO, V.O. (Moskva); KORABLEV, S.S. [Korabl'ov, S.S.] (Moskva)

Vibration of a shaft with disks, allowing for the
interaction of the engine with the vibratory system.
Prikl.mekh. 6 no.2:129-137 '60. (MIRA 13:8)

1. Institut mashinovedeniya AN SSSR.
(Shafting--Vibration)

S/179/63/000/001/030/031.
E191/E135

AUTHOR: Korablev, S.S. (Ivanovo)

TITLE: On the phase trajectories of an oscillator in the vicinity of the stability range boundaries

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye, no.1, 1963, 194-196

TEXT: Certain vibration problems are described by a system of equations with two variables in which one term contains a product of the second derivative of one variable and a sine function of the other, thereby making a variable coefficient. This system describes the resonant properties of a centrifugal vibrator, the resonant processes in an oscillating system containing a motor and other mechanical systems (e.g. V.O. Kononenko, Izv. AN SSSR, OTN, Mekhanika i mashinostroyeniye, no.2, 1959; and S.S. Korablev, ibid. no.6, 1959). The behavior of the trajectories of the system in the vicinity of steady-state solutions belonging to the resonant region is examined in the present paper. In doing so, the "most dangerous" boundary of the stability region is

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On the phase trajectories of ...

S/179/63/000/001/030/031
E191/E135

established. This analysis yields a better basis than the purely geometric criterion obtained by Kononenko (op.cit.). Using asymptotic methods in the theory of nonlinear oscillations, a substitution is made containing three "slowly" varying variables. The original system is reduced to a standard form, and some small terms are neglected. Steady-state solutions can be obtained for the system of three equations so derived. The stability of the solutions is examined by the Routh-Horowitz criteria. The results of the analytical study were verified by means of an electronic analog computer. There are 4 figures.

SUBMITTED: May 9, 1962

Card 2/2

KORABLEV, Stanislav Sergeyevich, kand.tekhn.nauk, ispolnyayushchiy
obyazannosti dotsenta

Self-oscillations of an electromechanical vibrator. Izv. vys.
ucheb. zav.; elektromekh. 6 no.6:723-729 '63. (MIRA 16:9)

1. Kafedra ~~oprotivleniya~~ materialov Ivanovskogo energeticheskogo
instituta.

(Vibrators)

KORABLEV, S.S.

Natural oscillations of an electromechanical oscillator. Teor.
mash. i mekh. no.101/102:102-112 '64.

(MIRA 17:11)

KORABLEV, V., inzh.

Elimination of faults in the PRP block. Radio no.1:50 Ja '62.
(MIRA 15:1)

(Television--Repairing)

"Multiplex." Thesis for degree of Cand. Technical Sci. Sub 24 Jun 49, Moscow Inst of Engineers of Geodesy, Aerial Photography, and Cartography

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

KORABLEV, V.I., inzh.

Protecting pipes of hot-water supply systems against corrosion. Gor.
khoz. Mosk. 34 no.10:20-22 0 '60. (MIRA 13:10)
(Moscow--Hot-water supply) (Pipe, Steel--Corrosion)

KORABLEV, Ya.P.

Radiation of insects with an aerosol apparatus No.1. Med.paras. 1
paras.bol. 37 no.5:619 S-0 '59. (MIRA 13:4)
(SPRAYING AND DUSTING EQUIPMENT)

KEYS, N.V.; VAYNSHTEYN, O.Ya.; KHRUYUKINA, V.A.; KAMKINA, L.A.; KORABLEV,
Ye.I.

Use of nickel-bearing emery dust in open hearth furnaces.
Metallurg 7 no.2:20-21 F '62. (MIRA 15:3)

1. Chelyabinskiy metallurgicheskiy zavod.
(Open-hearth furnaces--Equipment and supplies)
(Metallurgical plants--By-products)

1231. Bond strength of tread and breaker rubber stocks under repeated deformation. I. A. LEVITSKY, Yu G. KONARLEY, A. E. KORNEY, and B. L. BABITSKII, "Proektirovaniye Svyazi" . . . , 1964, p. 173-83. (Vses. Khim. Otkrytiya, No. 1, 1964, Dec., 1964). Multiply cylindrical test pieces with a diagonal joint, forming a tread-breaker-tread system, are tested on the MMS-1 machine, which subjects the test piece to cyclic compression at high velocity with a constant initial load being applied also. The bond strength increases on treating the rubbers with the bonding agent, increasing the thickness of the breaker strip of natural rubber, and increasing the period of vulcanisation and the content (within certain limits) of sulphur and accelerators. The bond strength decreases when the period of plastication and the pressure bearing at 100°C are increased. The tread rubber referred to is 8JKB-30A, the breaker rubber natural rubber or 8KB. 15- 64422

2f
Distr: 4E2c(1)

ACCESSION NR: AP4017161

S/0138/64/000/002/0009/0011

AUTHORS: Koshelev, F. F.; Korablev, Yu. G.; Bukanov, A. M.; Chasovshchikov, G. L.

TITLE: The strengthening of rubber films by alkaline lignin

SOURCE: Kauchuk i rezina, no. 2, 1964, 9-11

TOPIC TAGS: synthetic rubber, emulsion polymerization, zinc oxide, thiuram, sodium oleate, Leukanol, lignin, physicommechanical property, vulcanization, calcium chloride

ABSTRACT: Commercial synthetic rubbers, and experimental butadiene-containing rubbers prepared at the polymerization laboratory of the Institut organicheskoy Khimii AN SSSR (Institute of Organic Chemistry AN SSSR) were investigated. The lignin was obtained from waste sulfite liquor of wood pulp processing. Most of the mixtures consisted of 100 parts rubber (by weight), 5 parts of a 33% dispersion of zinc oxide, and 3 parts of a similar dispersion of thiuram. The solid ingredients were dispersed in a 5% aqueous solution of Leukanol in a ball mill. A 15% lignin solution in 20% ammonia was prepared, and up to 10% of it was added to the rubber dispersion. No vulcanizing agents were used for films prepared from SKD-1 and L-7 commercial rubbers, since the undercoat of calcium chloride (applied to the glass

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ACCESSION NR: AP4038906

S/0138/64/000/005/0004/0007

AUTHORS: Bilalov, Ya. M.; Koshelev, F. F.; Korablev, Yu. G.; Levitin, I. A.

TITLE: The utilization of standard cis-butadiene rubber SKD in protector rubber compounds

SOURCE: Kauchuk i rezina, ²³⁻no. 5, 1964, 4-7

TOPIC TAGS: protector rubber compound, cis butadiene rubber SKD, butadiene methylstyrene rubber SKMS 30ARKM15, plasticizer PN.6, carbon black KhAF, carbon black PM70, carbon black AySAF, protector compound technological property

ABSTRACT: Data are reported on the properties of protector rubber compounds obtained by combining cis-butadiene rubber SKD with butadiene-methylstyrene rubber SKMS-30 ARKM-15. The issuing material consisted of a typical protector compound on a SKMS-30 ARKM-15 base, filled with 50 parts (by weight) of carbon black of the KhAF type, various amounts of which were replaced by SKD. It was found that the compound containing 50 parts of SKD (vulcanized at 151C) showed high hardness, plasticity, and scorching tendency, but had a low resistance to cracking. All of its properties related to wear resistance showed a substantial improvement. Other tests were conducted on the effect of adding various

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NAGIBINA, T.D.; YASENKOVA, L.S.; ALIKBEROVA, G.I.; KORABLEV, Yu.G.;
KUZIN, V.S.; KUZNETSOVA, A.I.; ZHAROVA, A.S.; VASHUNINA, N.D.

Phenol-containing SKDF-10 rubber. Kauch. i rez. 24 no.11:2-3
'65. (MIRA 19:1)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR i
Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
M.V. Lomonosova.

L 27622-65 EWT(m)/EPF(c)/T/ENP(j) Pc-4/Pr-4 RM
ACCESSION NR: AP5005390

S/0138/65/000/002/0010/0012

AUTHOR: Bilalov, Ya. M.; Koshelev, F. F.; Korablev, Yu. G.; Levitin, I. A.

TITLE: Use of polyethylene in rubber mixes

SOURCE: Kauchuk i rezina, no. 2, 1965, 10-12

TOPIC TAGS: butadiene-styrene rubber, tread rubber, low pressure polyethylene, high pressure polyethylene, improved rubber mix, improved vulcanizate

ABSTRACT: A study has been made of the effect of polyethylene on the processability and physicomachanical properties of butadiene-styrene tread rubbers (SKS-30 ARKM-15). The experiments were conducted with KhAF carbon black-filled butadiene-styrene rubber mixes and vulcanizates containing 0-15% low- or high-pressure polyethylene (LPPE or HPPE). It was shown that the properties of butadiene-styrene rubber can be improved by the addition of LPPE, while HPPE hardly affects these properties. The different effects of LPPE and HPPE were attributed to a difference in structure. The results of the study indicated that the optimum amount of LPPE to be added to SKS-30 ARKM-15 tread mixes is 5%. Such mixes exhibit improved processability and reduced scorching and shrinkage. Their vulcanizates exhibit improved modulus at 300% elongation, and improved resistance to wear and ozone. Orig. art. has: 3 figures and 1 table. [BO]

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L 27622-65

ACCESSION NR: AP5005390

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V.
Lomonosova (Moscow Institute of Fine Chemical Technology); Moskovskiy shinnyy zavod
(Moscow Tire Plant)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, OC

NO REF SOV: 004

OTHER: 003

ATD PRESS: 3190

Card 2/2

L 7709-66 EWT(m)/EPF(c)/EWP(j)/T WW/RM
ACC NR: AP5028897

SOURCE CODE: UR/0138/65/000/011/0002/0003

AUTHOR: Nagibina, T. D.; Yasenkova, L. S.; Alikberova, G. I.; Korablev, Yu. G.;
Kuzin, V. S.; Kuznetsova, A. I.; Zharova, A. S.; Vashunina, N. D.

ORG: Institute of Organic Chemistry im. Zelinskiy, AN SSSR (Institut organicheskoy
khimii AN SSSR); Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov
(Moskovskiy institut tonkoy khimicheskoy tekhnologii)

TITLE: Phenol-containing rubber SKDF-10

SOURCE: Kauchuk i rezina, no. 11, 1965, 2-3

TOPIC TAGS: synthetic rubber, phenol containing rubber, copolymer

ABSTRACT: Phenol-containing rubbers have been prepared by emulsion copolymerization
at 60C of butadiene and dimethyl(vinylethynyl)(4-hydroxyphenyl)methane(I) in the
presence of diazoaminobenzene and hydroquinone. The best chemical, physical and
mechanical properties were exhibited by copolymers containing 10% of I(SKDF-10 rubber).
IR absorption spectra indicated that copolymerization occurs via the double band of
I. SKDF-10 rubbers can be vulcanized by such agents as sulfur, phenol-formaldehyde
resins, or hexamethylene tetramine. The formulation of the mixtures, the properties
of the rubbers, vulcanization methods, and the vulcanizate properties are described
in the source. The properties of SKDF-10 vulcanizates are similar to those of buta-
diene-styrene SKS-30 vulcanizates, but their fatigue strength in compression is

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UDC: 678.762.2-134.647:546/547.07.00

L 7709-66

ACC NR: AP5028897

twice as high as that of SKS-30 vulcanizates. SKDF-10 latex impregnation compositions exhibit enhanced adhesion.

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[80]

SUB CODE: MT/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 4142

Card

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2/2

KORABLEV, Yu.I., red.; LOGINOV, M.I., red.

[CPSU and the build-up of the Soviet Armed Forces, 1918-
June 1941] KPSS i stroitel'stvo vooruzhennykh sil SSSR,
1918-iun' 1941. Moskva, Voen.izd-vo M-va obr.SSSR, 1959.
450 p. (MIRA 13:8)
(Russia--Armed forces)

KORABLEV, Yu.N.

Variability in biological and morphological indices in early
common cabbage under the effect of grafting. Agrobiologiya
no.4:515-519 J1-Ag '65. (MIRA 18:11)

1. Gribovskaya ovoshchnaya selektsionnaya opytnaya stantsiya.